

QIPE

RAW SEQUENCE LISTING DATE: 08/17/2000
PATENT APPLICATION: US/09/632,098 TIME: 10:48:16

Input Set : A:\9939.SEQ.txt
Output Set: N:\CRF3\08162000\1632098.raw

4 <110> APPLICANT: Sheppard, Paul O.
 5 Baindur, Nand
 6 Bishop, Paul D.
 8 <120> TITLE OF INVENTION: MAMMALIAN ADHESION PROTEASE PEPTIDES
 10 <130> FILE REFERENCE: 99-39
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/632,098
 C--> 12 <141> CURRENT FILING DATE: 2000-08-02
 12 <160> NUMBER OF SEQ ID NOS: 26
 14 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 3431
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
 21 <220> FEATURE:
 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (37)...(2442)
 25 <400> SEQUENCE: 1
 26 gcgagccgcgt gcctagaggc cgaggagctc acagct atg ggc tgg agg ccc cgg
 27 Met Gly Trp Arg Pro Arg
 28 1 5
 30 aga gct cgg ggg acc ccg ttg ctg ctg cta cta ctg ctg ctg ctc
 31 Arg Ala Arg Gly Thr Pro Leu
 32 10 15 20
 34 tgg cca gtg cca ggc gcc ggg gtg ctt caa gga cat atc ctc cct ggg cag
 35 Trp Pro Val Pro Gly Ala Gly Val Leu Gln Gly His Ile Pro Gly Gln
 36 25 30 35
 38 cca gtc acc ccg cac tgg gtc ctg gat gga caa ccc tgg cgc acc gtc
 39 Pro Val Thr Pro His Trp Val Leu Asp Gly Gln Pro Trp Arg Thr Val
 40 40 45 50
 43 agc ctg gag gag ccg gtc tcg aag cca gac atg ggg ctg gtg gcc ctg
 44 Ser Leu Glu Glu Pro Val Ser Lys Pro Asp Met Gly Leu Val Ala Leu
 45 55 60 65 70
 47 gag gct gaa ggc cag gag ctc ctg ctt gag ctg gag aag aac cac agg
 48 Glu Ala Glu Gly Gln Glu Leu Leu Glu Leu Glu Lys Asn His Arg
 49 75 80 85
 51 ctg ctg gcc cca gga tac ata gaa acc cac tac ggc cca gat ggg cag
 52 Leu Leu Ala Pro Gly Tyr Ile Glu Thr His Tyr Gly Pro Asp Gly Gln
 53 90 95 100
 55 cca gtg gtg ctg gcc ccc aac cac acg gat cat tgc cac tac caa ggg
 56 Pro Val Val Leu Ala Pro Asn His Thr Asp His Cys His Tyr Gln Gly
 57 105 110 115
 59 cga gta agg ggc ttc ccc gac tcc tgg gta gtc ctc tgc acc tgc tct
 60 Arg Val Arg Gly Phe Pro Asp Ser Trp Val Val Leu Cys Thr Cys Ser
 61 120 125 130
 63 ggg atg agt ggc ctg atc acc ctc agc agg aat gcc agc tat tat ctg
 64 Gly Met Ser Gly Leu Ile Thr Leu Ser Arg Asn Ala Ser Tyr Tyr Leu
 65 135 140 145 150

ENTERED

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67 cgt ccc tgg cca ccc cgg ggc tcc aag gac ttc tca acc cac gag atc	534
68 Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp Phe Ser Thr His Glu Ile	
155 160 165	
71 ttt cgg atg gag cag ctg ctc acc tgg aaa gga acc tgt ggc cac agg	582
72 Phe Arg Met Glu Gln Leu Leu Thr Trp Lys Gly Thr Cys Gly His Arg	
170 175 180	
73 75 gat cct ggg aac aaa gcg ggc atg acc agc ctt cct ggt ggt ccc cag	630
76 Asp Pro Gly Asn Lys Ala Gly Met Thr Ser Leu Pro Gly Gly Pro Gln	
185 190 195	
77 79 agc agg ggc agg cga gaa gcg cgc agg acc cgg aag tac ctg gaa ctg	678
80 Ser Arg Gly Arg Arg Glu Ala Arg Arg Thr Arg Lys Tyr Leu Glu Leu	
200 205 210	
81 83 tac att gtg gca gac cac acc ctg ttc ttg act cgg cac cga aac ttg	726
84 Tyr Ile Val Ala Asp His Thr Leu Phe Leu Thr Arg His Arg Asn Leu	
215 220 225 230	
85 87 aac cac acc aaa cag cgt ctc ctg gaa gtc gcc aac tac gtg gac cag	774
88 Asn His Thr Lys Gln Arg Leu Leu Glu Val Ala Asn Tyr Val Asp Gln	
235 240 245	
89 91 ctt ctc agg act ctg gac att cag gtg gcg ctg acc ggc ctg gag gtg	822
92 Leu Leu Arg Thr Leu Asp Ile Gln Val Ala Leu Thr Gly Leu Glu Val	
250 255 260	
93 95 tgg acc gag cgg gac cgc agc gtc acg cag gac gcc aac gcc acg	870
96 Trp Thr Glu Arg Asp Arg Ser Arg Val Thr Gln Asp Ala Asn Ala Thr	
265 270 275	
97 99 ctc tgg gcc ttc ctg cag tgg cgc cgg ggg ctg tgg gcg cag cgg ccc	918
100 Leu Trp Ala Phe Leu Gln Trp Arg Arg Gly Leu Trp Ala Gln Arg Pro	
280 285 290	
101 103 cac gac tcc gcg cag ctg ctc acg ggc cgc gcc ttc cag ggc gcc aca	966
104 His Asp Ser Ala Gln Leu Leu Thr Gly Arg Ala Phe Gln Gly Ala Thr	
295 300 305 310	
105 107 gtg ggc ctg gcg ccc gtc gag ggc atg tgc cgc gcc gag agc tcg gga	1014
108 Val Gly Leu Ala Pro Val Glu Gly Met Cys Arg Ala Glu Ser Ser Gly	
315 320 325	
109 111 ggc gtg agc acg gac cac tcg gag ctc ccc atc ggc gcc gca gcc acc	1062
112 Gly Val Ser Thr Asp His Ser Glu Leu Pro Ile Gly Ala Ala Ala Thr	
330 335 340	
113 115 atg gcc cat gag atc ggc cac agc ctc ggc ctc agc cac gac ccc gac	1110
116 Met Ala His Glu Ile Gly His Ser Leu Gly Leu Ser His Asp Pro Asp	
345 350 355	
117 119 ggc tgc tgc gtg gag gct gcg gcc gag tcc gga ggc tgc gtc atg gct	1158
120 Gly Cys Cys Val Glu Ala Ala Glu Ser Gly Gly Cys Val Met Ala	
360 365 370	
121 123 gcg gcc acc ggg cac ccc ttt ccg cgc gtg ttc agc gcc tgc agc cgc	1206
124 Ala Ala Thr Gly His Pro Phe Pro Arg Val Phe Ser Ala Cys Ser Arg	
375 380 385 390	
125 128 cgc cag ctg cgc gcc ttc ctc cgc aag ggg ggc ggc gct tgc ctc tcc	1254
129 Arg Gln Leu Arg Ala Phe Phe Arg Lys Gly Gly Ala Cys Leu Ser	
395 400 405	
130 132 aat gcc ccg gac ccc gga ctc ccg gtg ccg ccg ctc tgc ggg aac	1302

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Input Set : A:\9939.SEQ.txt
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133	Asn Ala Pro Asp Pro Gly Leu Pro Val Pro Pro Ala Leu Cys Gly Asn			
134	410	415	420	
136	ggc ttc gtg gaa gca ggc gag gag tgt gac tgc ggc cct ggc cag gag	1350		
137	Gly Phe Val Glu Ala Gly Glu Cys Asp Cys Gly Pro Gly Gln Glu			
138	425	430	435	
140	tgc cgc gac ctc tgc tgc ttt gct cac aac tgc tgc cgc ccg ggg	1398		
141	Cys Arg Asp Leu Cys Cys Phe Ala His Asn Cys Ser Leu Arg Pro Gly			
142	440	445	450	
144	gcc cag tgc gcc cac ggg gac tgc tgc gtg cgc tgc ctg ctg aag ccg	1446		
145	Ala Gln Cys Ala His Gly Asp Cys Cys Val Arg Cys Leu Leu Lys Pro			
146	455	460	465	470
148	gct gga gcg ctg tgc cgc cag gcc atg ggt gac tgt gac ctc cct gag	1494		
149	Ala Gly Ala Leu Cys Arg Gln Ala Met Gly Asp Cys Asp Leu Pro Glu			
150	475	480	485	
152	ttt tgc acg ggc acc tcc tcc cac tgt ccc cca gac gtt tac cta ctg	1542		
153	Phe Cys Thr Gly Thr Ser Ser His Cys Pro Pro Asp Val Tyr Leu Leu			
154	490	495	500	
156	gac ggc tca ccc tgt gcc agg ggc agt ggc tac tgc tgg gat ggc gca	1590		
157	Asp Gly Ser Pro Cys Ala Arg Gly Ser Gly Tyr Cys Trp Asp Gly Ala			
158	505	510	515	
160	tgt ccc acg ctg gag cag cag tgc cag cag ctc tgg ggg cct ggc tcc	1638		
161	Cys Pro Thr Leu Glu Gln Gln Cys Gln Glu Trp Gly Pro Gly Ser			
162	520	525	530	
164	cac cca gct ccc gag gcc tgt ttc cag gtg gtc aac tct gcg gga gat	1686		
165	His Pro Ala Pro Glu Ala Cys Phe Gln Val Val Asn Ser Ala Gly Asp			
166	535	540	545	550
168	gct cat gga aac tgc ggc cag gac agc gag ggc cac ttc ctg ccc tgt	1734		
169	Ala His Gly Asn Cys Gly Gln Asp Ser Glu Gly His Phe Leu Pro Cys			
170	555	560	565	
172	gca ggg agg gat gcc ctg tgt ggg aag ctg cag tgc cag ggt gga aag	1782		
173	Ala Gly Arg Asp Ala Leu Cys Gly Lys Leu Gln Cys Gln Gly Lys			
174	570	575	580	
176	ccc agc ctg ctc gca ccg cac atg gtg cca gtc gac tct acc gtt cac	1830		
177	Pro Ser Leu Leu Ala Pro His Met Val Pro Val Asp Ser Thr Val His			
178	585	590	595	
180	cta gat ggc cag gaa gtg act tgt cgg gga gcc ttg gca ctc ccc agt	1878		
181	Leu Asp Gly Gln Glu Val Thr Cys Arg Gly Ala Leu Ala Leu Pro Ser			
182	600	605	610	
184	gcc cag ctg gac ctg ctt ggc ctg ggc gtc gta gag cca ggc acc cag	1926		
185	Ala Gln Leu Asp Leu Leu Gly Leu Gly Leu Val Glu Pro Gly Thr Gln			
186	615	620	625	630
188	tgt gga cct aga atg gtg tgc cag agc agg cgc tgc agg aag aat gcc	1974		
189	Cys Gly Pro Arg Met Val Cys Gln Ser Arg Arg Cys Arg Lys Asn Ala			
190	635	640	645	
192	ttc cag gag ctt cag cgc tgc ctg act gcc tgc cac agc cac ggg gct	2022		
193	Phe Gln Glu Leu Gln Arg Cys Leu Thr Ala Cys His Ser His Gly Ala			
194	650	655	660	
196	ggg ctc cac cct tct gtg aca agc cag gct ttg gtg gca gca tgg aca	2070		
197	Gly Leu His Pro Ser Val Thr Ser Gln Ala Leu Val Ala Ala Trp Thr			

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198	665	670	675	
200	gtg gcc ctg tgc agg ctg aaa acc atg aca cct tcc tgc tgg cca tgc			2118
201	Val Ala Leu Cys Arg Leu Lys Thr Met Thr Pro Ser Cys Trp Pro Cys			
202	680	685	690	
204	tcc tca gcg tcc tgc tgc ctc tcc cag ggg ccg gcc tgg cct ggt			2166
205	Ser Ser Ala Ser Cys Cys Leu Cys Ser Gln Gly Pro Ala Trp Pro Gly			
206	695	700	705	710
208	gtt gct acc gac tcc cag gag ccc atc tgc agc gat gca gct ggg gct			2214
209	Val Ala Thr Asp Ser Gln Glu Pro Ile Cys Ser Asp Ala Ala Gly Ala			
210	715	720	725	
213	gca gaa ggg acc ctg cgt gca gtg gcc cca aag atg gcc cac aca ggg			2262
214	Ala Glu Gly Thr Leu Arg Ala Val Ala Pro Lys Met Ala His Thr Gly			
215	730	735	740	
217	acc acc ccc tgg gcg gtc acc cca tgg agt tgg gcc cca cag cca			2310
218	Thr Thr Pro Trp Ala Ala Phe Thr Pro Trp Ser Trp Ala Pro Gln Pro			
219	745	750	755	
221	ctg gac agc cct ggc ccc tgg acc ctg aga act ctc atg agc cca gca			2358
222	Leu Asp Ser Pro Gly Pro Trp Thr Leu Arg Thr Leu Met Ser Pro Ala			
223	760	765	770	
225	gcc acc ctg aga agc ctc tgc cag cag tct cgc ctg acc ccc aag atc			2406
226	Ala Thr Leu Arg Ser Leu Cys Gln Gln Ser Arg Leu Thr Pro Lys Ile			
227	775	780	785	790
229	aag tcc aga tgc caa gat cct gcc tct ggt gag agg tagctcctaa			2452
230	Lys Ser Arg Cys Gln Asp Pro Ala Ser Gly Glu Arg			
231	795	800		
233	aatgaacaga tttaaagaca ggtggccact gagacgcccact ccaggaactt gaactgcagg			2512
234	ggcagagcca gtgaaatccc ggacctccag cacctgcagg cagcttggaa gtttcttccc			2572
235	cgatggagc ttccggccac ccactccagg aacccagagc cacattagaa gttcctgagg			2632
236	gctggagaac actgtggcc acactctcca gtcataaaa ccatcagtcc cagaagcaaa			2692
237	ggtcacacag cccctgacct ccctcaccag tggaggctgg gtagtgcctgg ccatccaaaa			2752
238	agggctctgt cctggggact tgggtgtct cctacatgca atttccacgg acccagctct			2812
239	gtggaggcga tgactgtcg ccagaagcta tgggtctgg ggcctatgg ttgcactgag			2872
240	tccacatcc cctggagcct ggctggcctc tgcaaacaaa cataattttt gggaccttcc			2932
241	ttctgtttc tttccacccct gtcattctccc cttaggtggt cctgagcccc caccggcaat			2992
242	cccgatgtca caccgtgggt tctggagcctc agaatctgac agcctctccc ccattctgtg			3052
243	tgtgtcgccc ggacagaggg aaccatttaa gaaaagatagc caaatggaaa gtcaaaagaaa			3112
244	agacatgtt gctataggcg tgggtgtca tggctataat cccagcactt tgggaagccg			3172
245	gggttagggg atccacggag gccagcaggc ccacaccagc ctggcaaca cagcaagaca			3232
246	ccgcattctac agaaaaattt taaaatttc tggcggtt ggtgtgtacc tgcactgagc			3292
247	gtgtgtcagg aggctgaagc aggaggatca ctggagccct agttcaacac tgcactgagc			3352
248	tatggggca ccactgcact ccacgttggg tgacagagca agaccctgtc tctaaaataaa			3412
249	atttaaaaaa gacatataa			3431
251	<210> SEQ ID NO: 2			
252	<211> LENGTH: 802			
253	<212> TYPE: PRT			
254	<213> ORGANISM: Homo sapiens			
256	<400> SEQUENCE: 2			
257	Met Gly Trp Arg Pro Arg Arg Ala Arg Gly Thr Pro Leu Leu Leu			
258	1	5	10	15

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259 Leu Leu Leu Leu Leu Trp Pro Val Pro Gly Ala Gly Val Leu Gln
260 20 25 30
261 Gly His Ile Pro Gly Gln Pro Val Thr Pro His Trp Val Leu Asp Gly
262 35 40 45
263 Gln Pro Trp Arg Thr Val Ser Leu Glu Glu Pro Val Ser Lys Pro Asp
264 50 55 60
265 Met Gly Leu Val Ala Leu Glu Ala Glu Gln Glu Leu Leu Leu Glu
266 65 70 75 80
267 Leu Glu Lys Asn His Arg Leu Leu Ala Pro Gly Tyr Ile Glu Thr His
268 85 90 95
269 Tyr Gly Pro Asp Gly Gln Pro Val Val Leu Ala Pro Asn His Thr Asp
270 100 105 110
271 His Cys His Tyr Gln Gly Arg Val Arg Gly Phe Pro Asp Ser Trp Val
272 115 120 125
273 Val Leu Cys Thr Cys Ser Gly Met Ser Gly Leu Ile Thr Leu Ser Arg
274 130 135 140
275 Asn Ala Ser Tyr Tyr Leu Arg Pro Trp Pro Pro Arg Gly Ser Lys Asp
276 145 150 155 160
277 Phe Ser Thr His Glu Ile Phe Arg Met Glu Gln Leu Leu Thr Trp Lys
278 165 170 175
279 Gly Thr Cys Gly His Arg Asp Pro Gly Asn Lys Ala Gly Met Thr Ser
280 180 185 190
281 Leu Pro Gly Pro Gln Ser Arg Gly Arg Arg Glu Ala Arg Arg Thr
282 195 200 205
283 Arg Lys Tyr Leu Glu Leu Tyr Ile Val Ala Asp His Thr Leu Phe Leu
284 210 215 220
285 Thr Arg His Arg Asn Leu Asn His Thr Lys Gln Arg Leu Leu Glu Val
286 225 230 235 240
287 Ala Asn Tyr Val Asp Gln Leu Leu Arg Thr Leu Asp Ile Gln Val Ala
288 245 250 255
289 Leu Thr Gly Leu Glu Val Trp Thr Glu Arg Asp Arg Ser Arg Val Thr
290 260 265 270
291 Gln Asp Ala Asn Ala Thr Leu Trp Ala Phe Leu Gln Trp Arg Arg Gly
292 275 280 285
293 Leu Trp Ala Gln Arg Pro His Asp Ser Ala Gln Leu Leu Thr Gly Arg
294 290 295 300
295 Ala Phe Gln Gly Ala Thr Val Gly Leu Ala Pro Val Glu Gly Met Cys
296 305 310 315 320
297 Arg Ala Glu Ser Ser Gly Gly Val Ser Thr Asp His Ser Glu Leu Pro
298 325 330 335
299 Ile Gly Ala Ala Ala Thr Met Ala His Glu Ile Gly His Ser Leu Gly
300 340 345 350
301 Leu Ser His Asp Pro Asp Gly Cys Cys Val Glu Ala Ala Ala Glu Ser
302 355 360 365
303 Gly Gly Cys Val Met Ala Ala Ala Thr Gly His Pro Phe Pro Arg Val
304 370 375 380
305 Phe Ser Ala Cys Ser Arg Arg Gln Leu Arg Ala Phe Phe Arg Lys Gly
306 385 390 395 400
307 Gly Gly Ala Cys Leu Ser Asn Ala Pro Asp Pro Gly Leu Pro Val Pro

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:781 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

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L:783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6